The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A particulate sealant for forming plugs in selected cells of honeycomb structures and consisting essentially, by weight, of:

about 70 80 to 90 85 % ceramic blend, the ceramic blend being raw ceramic materials selected to form a composition consisting essentially of in percent by weight about 12 to 16% MgO, about 33 to 38% Al₂O₃, and about 49 to 54% SiO₂, which will form cordierite (2MgO·2Al₂O₃·5SiO₂) on firing, and about 10 15 to 30 20 % binder system comprising a thermoplastic polymer capable of forming a reversible gel or a thermosetting resin.

- 2. (cancelled)
- 3. (currently amended) The particulate sealant according to claim 2 [1] wherein the binder system comprises thermoplastic polymer capable of forming a reversible gel in combination with a low melting wax and a dispersant.
- 4. (original) The particulate sealant according to claim 3 wherein the binder system has a formulation consisting essentially, by weight, of about 5-20% low melting wax, 1-7% high molecular weight thermoplastic polymer, and 0-5% dispersant.
- 5. (original) The particulate sealant according to claim 4 wherein the binder system has a formulation consisting essentially, by weight, of about 9.8-10.0% low melting wax, 4.9-5.0% high molecular weight thermoplastic, and 1.7% dispersant.
- 6. (original) The particulate sealant according to claim 5 wherein the thermoplastic polymer is a tri-block styrene-ethylene/butylene-styrene copolymer, or a butyl methacrylate/acrylic acid copolymer.
- 7. (original) The particulate sealant according to claim 6 wherein the low melting wax is selected from the group consisting of fatty alcohol, fatty acid, fatty glycol, and fatty glyceride waxes.

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8. (original) The particulate sealant according to claim 7 wherein the thermoplastic polymer is tri-block styrene-ethylene/butylene-styrene copolymer and the low melting wax is fatty alcohol.

- 9. (original) The particulate sealant according to claim 7 wherein the thermoplastic polymer is butyl methacrylate/acrylic acid copolymer and the low melting wax is fatty alcohol.
- 10. (original) The particulate sealant according to claim 1 wherein the binder system comprises a thermosetting resin.
- 11. (original) The particulate sealant according to claim 10 wherein the thermosetting resin is selected from the group consisting of epoxy resins, phenolics, diallyl phthalates, unsaturated polyesters and functionalized acrylics.
- 12. (original) The particulate sealant according to claim 11 wherein the thermosetting resin is epoxy resin.
- 13. (original) The particulate sealant according to claim 12 wherein the epoxy resin is combined with a crosslinking agent, and a dispersant.
- 14. (original) A material in powder form for sealing the end of selected cells of honeycomb structures and consisting essentially, by weight, of:
 - about 78 to 84% ceramic blend, the ceramic blend being raw ceramic materials selected to form a composition consisting essentially of in percent by weight about 12 to 16% MgO, about 33 to 38% Al₂O₃, and about 49 to 54% SiO₂, which will form cordierite (2MgO·2Al₂O₃·5SiO₂) on firing, and about 16 to 28% binder system, the binder consisting essentially, by weight, of about

9.5-15.0% low melting wax, about 5% thermoplastic polymer, and about 2 dispersant.

- 15. (original) The material according to claim 14 wherein the low melting wax is selected from the group consisting of fatty alcohol, fatty acid, fatty glycol, and fatty glyceride waxes.
- 16. (original) The particulate sealant according to claim 15 wherein the thermoplastic is triblock styrene-ethylene/butylene-styrene copolymer and the low melting wax is fatty alcohol.